## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1. (Previously Presented) A compound of the formula

$$\begin{array}{c|c}
(R^1)_x \\
& \\
N \\
& \\
R^3
\end{array}$$

$$Y - Z - R^2$$

wherein:

x is from 0 to 2;

 $R^1$  is selected from the group consisting of hydroxy,  $C_1$  to  $C_9$  alkoxy (optionally substituted by halo),  $C_1$  to  $C_9$  cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by  $C_1$  to  $C_4$  alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_3$  alkoxy or halo, and the alkoxy group is optionally substituted by halo) and  $C_1$  to  $C_9$  alkyl amino (wherein the alkyl group is optionally substituted by halo)

 $R^2$  is selected from the group consisting of H, alkyl, aryl, arylalkyl, cycloalkyl and cycloalkylalkyl, wherein alkyl moieties are optionally substituted by halo, and aryl groups are optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_4$  alkoxy and halo,

 $R^3$  is absent when -Y-Z- $R^2$  is attached to N, or  $R^3$  is selected from the group consisting of H,  $C_1$  to  $C_7$  alkyl and benzyl, when

-Y-Z-R<sup>2</sup> is not attached to N;

Y is  $C_2$  to  $C_{10}$  alkylene, in which one non-terminal carbon atom may be replaced by O; and

Z is

wherein  $R^5$ ,  $R^6$  and  $R^7$  are independently H, aryl ( $C_1$  to  $C_3$ ) alkyl or cycloalkyl ( $C_1$  to  $C_3$ ) alkyl optionally substituted by halo, and Q is H or methyl, provided that when Z is

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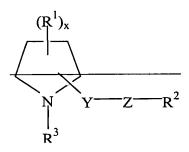
at least one of  $R^5$  and  $R^7$  is aryl( $C_1$  to  $C_3$ )alkyl or cycloalkyl( $C_1$  to  $C_3$ )alkyl, optionally substituted by halo;

or a pharmaceutically acceptable salt thereof.

- 2. (Cancelled)
- 3. (Currently Amended, Withdrawn) The compound of claim 1 or 30-wherein R<sup>2</sup> is selected from phenyl, halophenyl, benzyl, halobenzyl, phenylethyl, halophenylethyl, phenylpropyl, halophenylpropyl, phenylbutyl, halophenylbutyl, tolyl, methoxybenzyl, trifluoromethylbenzyl, halo-methoxybenzyl, phenylbenzyl, adamantanemethyl, adamantanemethyl, adamantanepropyl, cyclohexanemethyl, cyclohexaneethyl, and naphthyl.
- 4. (Currently Amended, Withdrawn) The compound of claim 1 or 30 wherein x is 0.
- 5. (Currently Amended, Withdrawn) The compound of claim 1 or 30 wherein x is 1 or 2, and  $R^1$  is selected from hydroxy,  $C_1$  to  $C_9$  alkoxy (optionally substituted by halo),  $C_1$  to  $C_9$  cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by  $C_1$  to  $C_4$  alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_3$  alkoxy or halo, and the alkoxy

group is optionally substituted by halo) and  $C_1$  to  $C_9$  alkylamino wherein the alkyl group is optionally substituted by halo.

- 6.-7. (Cancelled)
- 8. (Withdrawn) The compound of claim 1, wherein Y is propylene, butylene, pentylene, hexylene, heptylene, octylene or nonylene.
  - 9.-12. (Cancelled)
- 13. (Withdrawn) A pharmaceutical composition comprising a therapeutically effective amount of the compound of claim 1, and a physiologically acceptable diluent or carrier.
  - 14.-30. (Canceled)
- 31. (Currently Amended, Withdrawn) A method of treating a patient in need of a sedative, a sleep regulator, an anticonvulsant, a regulator of hypothalamo-hypophyseal secretion, an antidepressant, a modulator of cerebral circulation, treatment of asthma or treatment of irritable bowel syndrome comprising administering to said patient a therapeutically effective amount of H<sub>3</sub> receptor ligand or a pharmaceutically acceptable salt thereof according to claim 1, said H<sub>3</sub>-receptor ligand being a compound of the formula



wherein and the second

— x is from 0 to 2;

 $R^4$  is selected from the group consisting of hydroxy,  $C_4$  to  $C_9$  alkoxy (optionally substituted by halo),  $C_4$  to  $C_9$  cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by  $C_4$  to  $C_4$  alkyl or halo, and the alkoxy group is optionally

substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_3$  alkoxy or halo, and the alkoxy group is optionally substituted by halo) and  $C_1$  to  $C_9$  alkyl amino (wherein the alkyl group is optionally substituted by halo)

 ${\bf R}^2$  is selected from the group consisting of H, alkyl, aryl, arylalkyl, cycloalkyl and cycloalkylalkyl, wherein alkyl moieties are optionally substituted by halo, and aryl groups are optionally substituted by  ${\bf C}_1$  to  ${\bf C}_4$  alkyl,  ${\bf C}_1$  to  ${\bf C}_4$  alkoxy and halo,

\_\_\_\_\_R<sup>3</sup> is absent when -Y-Z-R<sup>2</sup> is attached to N, or R<sup>3</sup> is selected from the group consisting of H,  $C_1$  to  $C_7$  alkyl and benzyl, when

-Y-Z-R<sup>2</sup> is not attached to N;

Y is  $C_2$  to  $C_{10}$  alkylene, in which one non-terminal carbon atom may be replaced by O; and

\_\_\_\_\_Z is

wherein  $R^5$ ,  $R^6$  and  $R^7$  are independently H, aryl ( $C_1$  to  $C_2$ ) alkyl or cycloalkyl ( $C_1$  to  $C_3$ ) alkyl optionally substituted by halo, and Q is H or methyl, or Q is linked to  $R^5$  or  $R^7$  to form a five-membered ring or Q is linked to  $R^2$  to form a six-membered ring, provided that when Z is

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at least one of  $R^5$  and  $R^7$  is aryl( $C_1$  to  $C_3$ )alkyl or cycloalkyl( $C_1$  to  $C_3$ )alkyl, optionally substituted by halo;

or a pharmaceutically acceptable salt thereof.

- 32. (Withdrawn) The method of claim 31, wherein R<sup>2</sup> is selected from phenyl, halophenyl, benzyl, halobenzyl, phenylethyl, halophenylethyl, phenylpropyl, halophenylpropyl, phenylbutyl, halophenylbutyl, tolyl, methoxybenzyl, trifluoromethylbenzyl, halo-methoxybenzyl, phenylbenzyl, adamantanemethyl, adamantaneethyl, adamantanepropyl, cyclohexanemethyl, cyclohexaneethyl, and naphthyl.
  - 33. (Withdrawn) The method of claim 31, wherein x is 0.
- 34. (Withdrawn) The method of claim 31, wherein x is 1 or 2, and  $R^1$  is selected from hydroxy,  $C_1$  to  $C_9$  alkoxy (optionally substituted by halo),  $C_1$  to  $C_9$  cycloalkylalkoxy (wherein the cycloalkyl group is optionally substituted by  $C_1$  to  $C_4$  alkyl or halo, and the alkoxy group is optionally substituted by halo), arylalkoxy (wherein the aryl group is optionally substituted by  $C_1$  to  $C_4$  alkyl,  $C_1$  to  $C_3$  alkoxy or halo, and the alkoxy group is optionally substituted by halo) and  $C_1$  to  $C_9$  alkylamino wherein the alkyl group is optionally substituted by halo.
- 35. (Withdrawn) The method of claim 31, wherein Y is propylene, butylene, pentylene, hexylene, heptylene, octylene or nonylene.